



THE CITY OF SAN DIEGO

# **SOUTH BAY WATER RECLAMATION PLANT & OCEAN OUTFALL ANNUAL PRETREATMENT REPORT**

NPDES PERMIT No. CA 0109045  
SDRWQCB ORDER No. R9-2006-0067

**JANUARY 1 – DECEMBER 31, 2009**



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## **SOUTH BAY WATER RECLAMATION PLANT**

### **i. Description of the South Bay Water Reclamation Plant and Its Service Area**

The South Bay Water Reclamation Plant (SBWRP) is located on a 22.3 acre site near Dairy Mart Road and Monument Road in the eastern portion of the Tijuana River Valley. The site is approximately 300 feet north of the international boundary between Mexico and the United States and approximately 2000 feet west of the International Wastewater treatment Plant. The SBWRP treats raw wastewater collected from the southern portion of the City of San Diego, the City of Imperial Beach, the City of Chula Vista, and the unincorporated portions of south and east San Diego County, a total of approximately 44 square miles, and serves a population of nearly 107,000 people.

The plant is designed to treat up to 15 MGD of raw wastewater to secondary and/or tertiary reclaimed water standards. All SBWRP tertiary treated wastewater in excess of reclaimed water demands is discharged to the Pacific Ocean through the South Bay Ocean Outfall (SBOO). The SBOO was constructed for shared use by the International Wastewater treatment Plant (IWTP), which is operated by the International Boundary and Water Commission (IBWC), and the City of San Diego's SBWRP. The SBOO extends westward approximately 23,600 feet from the mouth of the Tijuana River and terminates in a "wye" diffuser with two 1980 foot long diffusers. The IWTP currently discharges a maximum of 25 MDG of advanced primary treated wastewater from the City of Tijuana. This discharge is regulated by Regional Board Order No. 96-50 (NPDES Permit No. CA0108928). The total average design capacity of the outfall is 174 MGD with a peak hydraulic capacity of 233 MGD. The effluent from the SBWRP is combined with the effluent from the IWTP within the SBOO prior to discharge to the Pacific Ocean.

The SBWRP's primary and secondary processes consist of influent screening using mechanically cleaned bar screens, grit removal using aerated grit chambers, primary sedimentation clarifiers with chain and flight sludge collectors and tilting trough scum collectors, primary effluent flow equalization storage tanks, air activated sludge biological treatment with anoxic selector, and secondary clarifiers with chain and flight sludge collectors. The tertiary treatment process consists of filter feed pumping, coagulation with chemical addition, direct filtration with conventional deep bed mono-media filters, backwash facilities, and disinfection using ultraviolet light. Sludge processing is handled at the Point Loma Wastewater Treatment plant (PLWWTP). Solids from the SBWRP are pumped to the PLWWTP through the South Metro Interceptor.

During CY2002 the South Bay Water Reclamation Plant (SBWRP) began operations, accepting an average of 3.5 MGD influent through the Grove Avenue Pump Station (GAPS). In October 2003 the Otay River Pump Station (ORPS) came on-line. The ORPS is divided into two pumping streams, with one sending high TDS flows from the Imperial Beach Sewer directly to the South Metro Interceptor influent to the Point Loma plant, and the other sending flows from the Otay Trunk Sewer and Salt Creek Trunk Sewer to the GAPS. Since start-up, the ORPS facility has been directing nearly 5 MGD to the GAPS, which combines with the on-going 3.5 MGD GAPS flow for a total of 8.33 MGD. In that some wastewater from areas tributary to the GAP and ORPS is able to be diverted to the PLWWTP via the South Metro Interceptor, facilities tributary to the GAP and ORPS are included in Annual Pretreatment Reports for both plants.

## **II.**

**A. Summary of analytical results from representative flow-proportioned, 24-hour composite sampling of the SBWRP influent and effluent for those pollutants that the USEPA has identified under Section 307(a) of the CWA, and which are known or suspected to be discharged by industrial users. The summary includes a full priority pollutant scan.**

**See reports that follow Item J.**

### **B. Upset, Interference, and Pass-through**

There has been one on-going incident of interference with ORPS operations and the treatment plant by rags known to be discharged, in part, by the RJ Donovan Correctional Center. The program has determined that this is a facility-specific issue and not a problem that would be effectively addressed by a local limit. Due to delays having to do with obtaining state funding, RJ Donovan implemented temporary measures to comply with the October 1, 2008 Compliance Order due date; installation of permanent technology to maintain compliance is due March 1, 2010.

There have been six influent samples exceeding the SBWRP reclaimed water limit of 1200 mg/L and 122 influent values exceeding the reclaimed water goal of 1000 ppm. These elevated TDS levels have been attributed to infiltration and, in part, to an increase in the number of SIUs tributary to the plant discharging high TDS wastestreams from self-regenerating water softeners. The program is working with the SBWRP Plant Operators and contributing industries to ensure salt loadings are controlled so they do not result in non-compliance or non-saleable recycled water. The program conducts monthly sewershed monitoring for TDS to quickly identify infiltration. Furthermore, the SBWRP is in the process of installing a reverse osmosis system to remove TDS. The program plans to include facility-specific BMPs and / or discharge limits for TDS in permits as needed, however a study conducted in FY2009 determined that, even if the regulated industries in the SBWRP sewershed eliminated their water softeners, the plant would still need to install TDS removal technology to meet reclaimed water sale standards.

### **C. List of Deletions, Additions, and Name Changes of Significant Industrial Users during CY09**

**There were no SIU name changes during CY09.**

#### **Two new SIUs initiated discharge to SBWRP in CY09:**

<b>Ind #</b>	<b>Ind Name</b>	<b>Pmt Issue Dt</b>	<b>SIU Type</b>	<b>Applicable Standards</b>
36-0001	Otay Mesa Energy Center LLC	20-Jul-09	CIU	Steam Electric (PSNS) 40CFR 423.17
12-0212	Cantare Foods Inc	01-Jul-09	Flow	SIU Class 3 Food Manufacturing

**No SIUs were deleted from the CY08 CIU list during CY09.**

**No existing facilities discharging to SBWRP became SIUs in CY09.**

### **D. Characterization of the Compliance Status of Each SIU**

The compliance status of SIUs tributary to the SBWRP is included in the combined Annual SIU Compliance Status Report; see Chapter 4 of the CY2009 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045.

No IUs have been required to prepare or implement a pollution prevention plan as the result of non-compliance.

### **E. Programs San Diego has implemented to reduce pollutants from industrial users not classified as SIUs**

The Public Utilities Department of San Diego controls pollutants discharged by non-SIUs and from non-industrial sources through a combination of Class 2 and 3 permits,

Best Management Practice Certification programs, and Hazardous Waste Collection events and facilities throughout the Metropolitan Sewerage System service area in cooperation with contributing agencies. For details, see Chapters Two and Three of the CY2009 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045.

#### **F. Pretreatment Program Changes**

During CY2009, the program made the following significant changes: None

There were no other significant changes in operating the pretreatment program in the areas of administrative structure, local limits, monitoring program, legal authority, enforcement policy, or funding or staffing levels.

#### **G. Annual Pretreatment Program Budget**

The pretreatment program budget is administered as a single budget for the three treatment plants in the Metropolitan Sewerage System service area. See Chapter 2 of the CY2009 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details.

#### **H. Public Information and Involvement**

Each year, a combined list of all facilities in the Metropolitan Sewerage System service area that were in SNC at any time during the year is published in the Union Tribune; this list is included in Chapter 4 of the CY2009 Annual Report for the Point Loma POTW NPDES Permit No. CA0109045).

#### **I. Sludge Disposal Methods**

Sludge from the SBWRP is conveyed to the Miramar Biosolids Center for processing and disposal in combination with sludge from throughout the Metropolitan Sewerage System service area. See Chapter 5 of the CY2009 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details.

#### **J. Other Concerns**

There are no other concerns pertaining to the administration of the pretreatment program or control of industrial contributions to the headworks loadings at the SBWRP at this time.

## Distribution of Permits and Industrial Flows by Area Treatment Plant 6

Report run on: December 30, 2009 5:55 PM

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<b>Class</b>	<b>1</b>		<b>2</b>		<b>2F</b>		<b>3</b>		<b>4</b>		<b>4C</b>		<b>4D</b>		<b>5</b>		<b>Total</b>	<b>Total</b>
<b>Area</b>	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	<b>Permits</b>	<b>flow (gpd)</b>
<b>12</b>	2	864	4	10,487	20	3	4	202,810	56	22,824	4		2	0	5		97	236,988
<b>13</b>	1	250	5	6,803	19	520	3	15,141	45	14,297	0		2	0	6		81	37,011
<b>36</b>	1	43,200	0		0		0		0		0		0		0		1	43,200
	4	44,314	9	17,290	39	523	7	217,951	101	37,121	4		4	0	11		179	317,199

## Active Permits, Treatment Plant 6

Report run on: December 30, 2009 5:38 PM

Description	SIUSIU Type	Permit Count
1 - Federally Regulated	Y CIU	4
		4
2 - Local: Toxic Pollutants in Process	N	9
		9
2F - Film Processing only	N	39
		39
3 - Local: Conventional Pollutants in Process	N	3
	Y FLOW	4
		7
4 - No Discharge: Ww Generated or Chemicals Stored	N	101
		101
4C - No Discharge: Fed Regulated Ww Generated	N CIU ZERO	4
		4
4D - Dry Cleaning only, no discharge	N	4
		4
5 - No IW Generated: No potential to discharge	N	11
		11
Total:		179

# SIU Facilities: Federally and Locally Regulated Parameters by Connection Treatment Plant 6

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Facility	Permit	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
12-0038	03-A	RJ Donovan Correctional Facility	480 Alta Rd , San Diego	100	56,600	OIL/GREASE	H	H	L	DM	5	500	mg/L
						PH	H	H	L	DM		12.5	pH
12-0144	03-A	AP Precision Metals	1215 30th St , San Diego	110	264	CADMIUM	Q	Q	F	DM	5	.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM		12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM	5	2130	ug/L
						ZINC	Q	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L
12-0154	02-A	Heinz Frozen Foods	7878 Airway Rd , San Diego	110	90,000	CHROMIUM	Q	Q	O	DM		5	mg/L
						OIL/GREASE	M	M	L	DM		500	mg/L
						PH	M	M	L	DM		12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TEMP	M	M	L	DM		65.5	DegC
12-0202	01-A	Spec-Built Systems Inc	2150 Michael Faraday Dr , San Diego	110	600	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L
						ZINC	Q	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L



# SIU Facilities: Federally and Locally Regulated Parameters by Connection Treatment Plant 6

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Facility	Permit	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
12-0212	01-A	Cantare Foods Inc	7651 Saint Andrews Av , San Diego	100	22,882	OIL/GREASE	M	M	L	DM		500	mg/L
						PH	M	M	L	DM	5	12.5	pH
12-0220	01-A	Circle Foods LLC	8411 Siempre Viva Rd , San Diego	110	30,000	OIL/GREASE	M	M	L	DM		500	mg/L
						PH	M	M	L	DM	5	12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TEMP	M	M	L	DM		65.5	DegC
13-0115	04-A	Doncasters GCE Industries	1891 Nirvana Av , Chula Vista	330	208	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	S		L	DM		12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L
						ZINC	Q	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L
				410	41	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	S		L	DM		12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L
						ZINC	Q	Q	F	DM		2.61	mg/L

# SIU Facilities: Federally and Locally Regulated Parameters by Connection Treatment Plant 6

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Facility	Permit	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
13-0115	04-A	Doncasters GCE Industries	1891 Nirvana Av , Chula Vista	410	41	ZINC	Q	Q	F	MO		1.48	mg/L
36-0001	01-A	Otay Mesa Energy Center LLC	647 Alta Rd , San Diego	110	43,000	CHROMIUM	Q	Q	F	DM		.2	mg/L
						OIL/GREASE	Q	Q	L	DM		500	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	Q		L	DM		12.5	pH
						TDS	Q	Q	L	DM		3200	mg/L
						ZINC	Q	Q	F	DM		1	mg/L

# SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection Treatment Plant 6

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Facility	Permit	Name	IW Discharged (gpd)	Conn	Principle Process	Federal/ Local	CFR Part	CFR Section	Order	Pre Treat Code
12-0038	03-A	RJ Donovan Correctional Facility	56,600	100	Main Sewer	Local	130 133		1	GRIND
12-0144	03-A	AP Precision Metals	264	110	Metal Coating (Iron Phosphating)	Federal	433	.17	1 2	PH SETTLE
12-0154	02-A	Heinz Frozen Foods	90,000	110	Food Manufacturing	Local	137		1 2 3 4	EQUAL SCREEN DAF+C GREASE
12-0202	01-A	Spec-Built Systems Inc	600	110	Iron Phosphating	Federal	433	.17	1 2 3 4 5 6	SETTLE RECYL CC PH MIXER HAUL
12-0212	01-A	Cantare Foods Inc	26,210	100	Cheese Manufacturing Lateral	Local	134 137			
				210	Bakery	Local			1 2 3	SETTLE HAUL ELBOW
12-0220	01-A	Circle Foods LLC	30,000	110	Food manufacturing	Local	137		1 2 3 4	EQUAL SCREEN DAF+C SD-FP
13-0115	04-A	Doncasters GCE Industries	250	200	Bldg 2 Lateral, 1887 Nirvana Av	Local			1 2	ZERO HAUL
				300	Bldg 3 Lateral, 757 Main St	Local	130		1 2	ERU+1 HAUL
				330	Dye Pen/ Vibra Clean	Federal	433	.17	1 2 3	SETTLE IX FILT-O
				410	Dye Pen/Water Jet Cutting	Federal	433	.17	1 2 3	SETTLE IX FILT-O

# SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection Treatment Plant 6

Report run on: January 4, 2010 3:10 PM

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Facility	Permit	Name	IW Discharged (gpd)	Conn	Principle Process	Federal/ Local	CFR Part	CFR Section	Order	Pre Treat Code
13-0115	04-A	Doncasters GCE Industries	250	410					4	O/W
									5	HAUL
36-0001	01-A	Otay Mesa Energy Center LLC	43,200	110	WetSac blowdown + OWS	Federal	423	.17	1	SETTLE
									2	PH
				120	PCB zero discharge	Federal	423	.17	1	ZERO

Baseline Monitoring Reports Requested or Received Between 01-Jan-09 and 31-Dec-09  
Treatment Plant 6

Report run on: December 30, 2009 5:37 PM

Activity	Facility	Permit Name	Completed
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SIUs Discharging to Treatment Plant 6 Inactivated  
between 01-Jan-09 and 31-Dec-09

Report run on: December 30, 2009 6:06 PM

<i>Class</i>	<i>Facility</i>	<i>Name</i>	<i>Permit</i>	<i>Pmt Inact Dt</i>	<i>Reason</i>
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Count 0

# Sampling at SIUs Discharging to Treatment Plant 6 between 01-Jan-09 and 31-Dec-09

Report run on: March 22, 2010 12:19 AM

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<b>Facility</b>	<b>Pmt</b>	<b>Name</b>	<b>Conn</b>	<b>Principle Process</b>	<b>Pmt Include</b>	<b>Parmcode</b>	<b>City Samples</b>	<b>Self Samples</b>
12-0038	03-A	RJ Donovan Correctional Facility	100	Main Sewer	L	COD	8	6
						CONDUCT-COMP	9	
						OIL/GREASE	7	6
						PH	8	5
						SILVER CERT		1
12-0144	03-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	F	TSS	8	6
						CADMIUM	4	4
						CHROMIUM	4	4
						COPPER	4	4
						CYANIDE(T)	4	4
						FLOW		4
						LEAD	4	4
						NICKEL	4	4
						PH	4	3
						SILVER	4	4
						TTO CERT		4
						TTO(413+433)-P	1	
12-0154	02-A	Heinz Frozen Foods	110	Food Manufacturing	L	ZINC	4	4
						COD	12	12
						CONDUCT-COMP	12	
						OIL/GREASE	23	13
						PH	24	12
						PH HIGHEST		
						PH LOWEST		
						TEMP	24	12
12-0202	02-A	Spec-Built Systems Inc	110	Iron Phosphating	F	TSS	12	12
						CADMIUM	3	1
						CHROMIUM	3	1
						COPPER	3	1
						CYANIDE(T)	3	1
						FLOW		2
						LEAD	3	1
						NICKEL	3	1
						PH	3	1
						SILVER	3	1
						TTO CERT		4
						TTO(413+433)-P	1	
12-0212	01-A	Cantare Foods Inc	100	Cheese Manufacturing Lateral	L	ZINC	3	1
						COD	5	6
						FLOW		5

# Sampling at SIUs Discharging to Treatment Plant 6 between 01-Jan-09 and 31-Dec-09

Report run on: March 22, 2010 12:19 AM

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Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples						
12-0212	01-A	Cantare Foods Inc	100			FLOWMETER READ 1		5						
						FLOWMETER READ 2		5						
						OIL/GREASE	9	5						
						PH	5	5						
						TSS	5	6						
			210			Bakery	L	CLARIFIER RPT						
								COD	5					
								FLOW		3				
								TSS	5					
								COD	10	12				
12-0220	01-A	Circle Foods LLC	110	Food manufacturing	L	CONDUCT-COMP	10							
						FLOW		12						
						OIL/GREASE	18	12						
						PH	20	12						
						PH HIGHEST								
						PH LOWEST								
						TEMP	20	12						
						TSS	10	12						
						13-0115	04-A	Doncasters GCE Industries	200	Bldg 2 Lateral, 1887 Nirvana Av	L	ZERODISCHRG CERT		2
									300	Bldg 3 Lateral, 757 Main St	L			
330	Dye Pen/ Vibra Clean	F	CADMIUM	4	2									
			CHROMIUM	4	2									
			COPPER	4	2									
			CYANIDE(T)	4	2									
			FLOW		1									
			LEAD	4	2									
			NICKEL	4	2									
			PH	4	2									
			PH HIGHEST	2										
			PH LOWEST	2										
			SILVER	4	2									
			TTO CERT		1									
			TTO(413+433)-P	1										
			ZINC	4	2									
			410	Dye Pen/Water Jet Cutting	F				CADMIUM	2	1			
CHROMIUM	2	1												
COPPER	2	1												
CYANIDE(T)	2	1												
FLOW														
LEAD	2	1												

# Sampling at SIUs Discharging to Treatment Plant 6 between 01-Jan-09 and 31-Dec-09

Report run on: March 22, 2010 12:19 AM

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<b>Facility</b>	<b>Pmt</b>	<b>Name</b>	<b>Conn</b>	<b>Principle Process</b>	<b>Pmt Include</b>	<b>Parmcode</b>	<b>City Samples</b>	<b>Self Samples</b>
13-0115	04-A	Doncasters GCE Industries	410			NICKEL	2	1
						PH	2	1
						PH HIGHEST	1	
						PH LOWEST	1	
						SILVER	2	1
						TTO CERT		
						TTO(413+433)-P	1	
						ZINC	2	1
36-0001	01-A	Otay Mesa Energy Center LLC	110	WetSac blowdown + OWS	F	CADMIUM	4	
						CHROMIUM	4	2
						COD	4	2
						COPPER	4	
						FLOW		2
						LEAD	4	
						NICKEL	4	
						OIL/GREASE	4	2
						PH	4	2
						PH HIGHEST	3	
						PH LOWEST	3	
						TDS	4	2
						TSS	4	2
						ZINC	4	2
						ZERODISCHRG CERT		2
			120	PCB zero discharge	F			



TTO Sampling at SIUs discharging to Treatment Plant 6  
between 01-Jan-09 and 31-Dec-09

Report run on: March 21, 2010 11:16 PM

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<b>Facility</b>	<b>Pmt</b>	<b>Name</b>	<b>Conn</b>	<b>Principle Process</b>	<b>Batch</b>	<b>City TTO Samples</b>	<b>Self TTO Samples</b>	<b>Self Certification</b>
12-0144	03-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	N	1		4
12-0202	01-A	Spec-Built Systems Inc	110	Iron Phosphating	N	1		4
13-0115	04-A	GCE Industries Inc	330	Dye Pen/ Vibra Clean	N	1		1
			410	Dye Pen/Water Jet Cutting	N	1		

# Active Non-SIU Permits, Treatment Plant 6

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<b>Class</b>	<b>Facility</b>	<b>Permit</b>	<b>Name</b>		<b>Address</b>		<b>City</b>	<b>Zip</b>
2	12-0024	02-A	US Border Patrol	3752	Beyer	Bl	San Diego	92173
	12-0140	01-A	Kaiser Foundation Health Plan	4652	Palm	Av	San Diego	92154
	12-0143	02-A	Adesa San Diego	2175	Cactus	Rd	San Diego	92154
	12-0145	03-A	Larkspur Energy	9355	Otay Mesa	Rd	San Diego	92154
	13-0159	03-A	SOS Metals San Diego	635	Anita	St	Chula Vista	91911
	13-0278	03-A	Allied Waste Systems dba Allied Waste Services SD	881	Energy	Wy	Chula Vista	91911
	13-0316	02-A	Fuller Ford	560	Auto Park	Dr	Chula Vista	91911
	13-0327	02-A	Dresser-Rand	1675	Brandywine	Av Suite E&F	Chula Vista	91911
	13-0399	01-A	ATC of San Diego	3650A	Main	St	Chula Vista	91911
<b>9</b>								
3	13-0095	01-A	Otay Valley Shell	4555	Main	St	Chula Vista	92012
	13-0298	02-A	MMC Chula Vista LLC	3497	Main	St	Chula Vista	91911
	13-0439	01-A	Toyota Chula Vista	650	Main	St	Chula Vista	91911
<b>3</b>								
<b>12</b>								

# Film Processors Subject to Best Management Practices, Treatment Plant 6

Report run on: December 30, 2009 5:32 PM

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Class	Facility	Permit	Name	Address	City
2F	12-0081	00-A	San Ysidro Health Center	4004 Beyer	Bl San Diego
	12-0100	01-A	County;George Bailey Detention	446 Alta	Rd San Diego
	12-0112	01-A	NAC	1330 30th	St San Diego
	12-0113	01-A	So San Diego Veterinary Hosp	2910 Coronado	Av Suite E San Diego
	12-0114	02-A	EZ Smiles Dental Care	1850 Coronado	Av San Diego
	12-0115	01-A	Lewis J Dorria DDS	2930 Coronado	Av San Diego
	12-0117	01-A	Montgomery High School	3250 Palm	Av San Diego
	12-0119	01-A	Jeffrey W Brown DDS	1761 Palm	Av San Diego
	12-0121	01-A	Jerome A Bannister DDS	4370 Palm	Av Suite C San Diego
	12-0122	02-A	Carlos Garcia DDS	1270 Picador	Bl Suite L-M San Diego
	12-0123	02-A	Southland Plaza Dental	655 Saturn	Bl Suite G San Diego
	12-0124	01-A	I-5 Palm Ave Medical Clinic	655 Saturn	Bl San Diego
	12-0125	02-A	San Ysidro Dental Care	2004 Dairy Mart	Rd San Diego
	12-0126	01-A	Wal-Mart # 2150	710 Dennery	Rd San Diego
	12-0146	02-A	CVS Pharmacy # 9115	645 Saturn	Bl San Diego
	12-0186	01-A	Rancho Vista Medical & Therapy Center Inc	342 W San Ysidro	Bl Suite F San Diego
	12-0208	01-A	CVS Pharmacy # 9524	3320 Palm	Av San Diego
	12-0209	01-A	Rite Aid # 5668	1856 Coronado	Av San Diego
	12-0222	01-A	Jose L Lopez DDS Inc	3490 Palm	Av Unit 1 San Diego
	12-0231	01-A	Juvenile Detention Facility	446 Alta	Rd San Diego
	13-0048	02-A	Hyspan Precision Products	1685 Brandywine	Av Chula Vista
	13-0117	02-A	Bay Port Press	645 Marsat	St Suite D Chula Vista
	13-0235	01-A	Photo Max	1367 3rd	Av Chula Vista
	13-0249	01-A	The Pet Clinic	3326 Main	St Chula Vista
	13-0255	01-A	Hilltop Dentistry	11 Naples	St Chula Vista
	13-0256	01-A	Langford Chiropractor	4360 Main	St Suite 209 Chula Vista
	13-0257	01-A	Robert N Woodall DDS Inc	330 Oxford	St Chula Vista
	13-0261	02-A	Palomar Dental Group	648 Palomar	St Chula Vista
	13-0306	02-A	CVS Pharmacy # 9113	645 E Palomar	St Chula Vista
	13-0333	01-A	Costco Wholesale # 781	1130 Broadway	Chula Vista
	13-0355	01-A	Walgreens # 7867	1430 Eastlake	Py Chula Vista
	13-0379	01-A	Amazon Animal Hospital	1172 3rd	Av Suite D8 Chula Vista
	13-0387	01-A	Perpecta Dental Group	314 Palomar	St Chula Vista
	13-0388	01-A	Palomar Dental Group	664 Palomar	St Suite 1103 Chula Vista
	13-0412	01-A	Wal-Mart Store # 5305	1150 Broadway	Chula Vista
	13-0414	01-A	Walgreens # 2623	1111 3rd	Av Chula Vista
	13-0419	01-A	CVS Pharmacy # 9196	1376 Third	Av Chula Vista
	13-0442	01-A	Wal-Mart # 3516	1360 Eastlake	Py Chula Vista
	13-0456	01-A	East Lake Plaza Dental	2060 Otay Lakes	Rd Suite 230 Chula Vista
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## Dry Cleaners Subject to Best Management Practices, Treatment Plant 6

Report run on: December 30, 2009 5:10 PM

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Class	Facility	Permit	Name	Address	City
4D	12-0106	02-A	Saturn Cleaners	655 Saturn	San Diego
	12-0108	02-A	Rainbow Cleaners	2004 Dairy Mart	San Diego
	13-0172	02-A	Sunny Fresh Cleaners # 11	1478 Melrose	Chula Vista
	13-0176	01-A	Speedy Clean Specialists Inc	1327 3rd	Chula Vista
4					

## **SBWRP Influent and Effluent Data Summary**

The results of all analyses performed on the SBWRP influent and effluent are summarized on the following pages.

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL  
Biochemical Oxygen Demand Concentration  
(24-hour composite)

From 01-JAN-2009 To 31-DEC-2009

	Influent Flow	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Effluent Flow	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	8.6	335	24028	4.9	5.6	229	98.3
FEBRUARY -2009	8.7	326	23654	5.4	5.4	243	98.3
MARCH -2009	8.6	354	25390	4.5	8.4	315	97.6
APRIL -2009	8.3	348	24089	3.0	8.4	210	97.6
MAY -2009	8.5	367	26017	1.3	7.7	83	97.9
JUNE -2009	8.3	347	24020	1.1	7.8	72	97.8
JULY -2009	8.3	358	24781	0.2	7.3	12	98.0
AUGUST -2009	8.2	365	24962	0.3	5.8	15	98.4
SEPTEMBER-2009	8.2	358	24483	0.2	6.1	10	98.3
OCTOBER -2009	8.2	345	23594	2.1	7.4	130	97.9
NOVEMBER -2009	8.0	377	25153	2.9	8.0	193	97.9
DECEMBER -2009	8.1	347	23441	5.8	12.4	600	96.4
=====	=====	=====	=====	=====	=====	=====	=====
Average	8.3	352	24468	2.6	7.5	176	97.9

Annual Mass Emissions are calculated from monthly averages of flow and BOD, whereas  
Monthly Report average mass emissions are calculated from average daily mass emissions.

ND=not detected  
NS=not sampled  
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL

Total Suspended Solids Concentration  
(24-hour composite)

From 01-JAN-2009 To 31-DEC-2009

		Daily Influent Flow (MGD)	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent VSS (%)	Daily Influent Mass Emission (lbs/Day)
=====						
JANUARY -2009		8.6	336	298	88.7	24099
FEBRUARY -2009		8.7	299	260	87.0	21695
MARCH -2009		8.6	290	257	88.6	20800
APRIL -2009		8.3	298	261	87.6	20628
MAY -2009		8.5	303	266	87.8	21480
JUNE -2009		8.3	307	273	88.9	21251
JULY -2009		8.3	303	268	88.4	20974
AUGUST -2009		8.2	290	255	87.9	19833
SEPTEMBER-2009		8.2	289	253	87.5	19764
OCTOBER -2009		8.2	282	244	86.5	19285
NOVEMBER -2009		8.0	309	269	87.1	20616
DECEMBER -2009		8.1	296	255	86.1	19996
=====						
Average		8.3	300	263		20868

Total Suspended Solids Concentration  
(24-hour composite)

		Daily Effluent Flow (MGD)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent VSS (%)	Daily Effluent Mass Emission (lbs/Day)	Percent Removal TSS (%)	Percent Removal VSS (%)
=====								
JANUARY -2009		4.9	2.6	2.0	76.9	106	99.2	99.3
FEBRUARY -2009		5.4	3.1	2.5	80.6	140	99.0	99.0
MARCH -2009		4.5	5.3	4.6	86.8	199	98.2	98.2
APRIL -2009		3.0	7.2	6.3	87.5	180	97.6	97.6
MAY -2009		1.3	6.4	5.4	84.4	69	97.9	98.0
JUNE -2009		1.1	7.5	6.3	84.0	69	97.6	97.7
JULY -2009		0.2	6.4	5.0	78.1	11	97.9	98.1
AUGUST -2009		0.3	5.6	4.7	83.9	14	98.1	98.2
SEPTEMBER-2009		0.2	5.8	4.8	82.8	10	98.0	98.1
OCTOBER -2009		2.1	5.8	4.7	81.0	102	97.9	98.1
NOVEMBER -2009		2.9	5.7	4.8	84.2	138	98.2	98.2
DECEMBER -2009		5.8	7.0	6.0	85.7	339	97.6	97.6
=====								
Average		2.6	5.7	4.8		115	98.1	98.2

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

VSS = Volatile Suspended Solids

TSS = Total Suspended Solids

nd=not detected; NS=not sampled; NA=not analyzed

\* The limit is 85% removal on daily running averages.

SOUTH BAY WATER RECLAMATION PLANT  
Effluent to Ocean Outfall

From 01-JAN-2009 To 31-DEC-2009

	Flow (mgd)	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)
Limit:	15						
JANUARY -2009	4.89	7.31	ND	5.56	2.61	1.99	947
FEBRUARY -2009	5.36	7.42	ND	5.37	3.07	2.45	1010
MARCH -2009	4.45	7.45	ND	8.43	5.25	4.60	1120
APRIL -2009	2.97	7.46	ND	8.43	7.23	6.30	994
MAY -2009	1.32	7.54	ND	7.65	6.36	5.36	1010
JUNE -2009	1.07	7.52	ND	7.77	7.46	6.29	1040
JULY -2009	0.25	7.64	ND	7.25	6.35	5.03	950
AUGUST -2009	0.31	7.57	ND	5.79	5.61	4.67	948
SEPTEMBER-2009	0.16	7.59	ND	6.12	5.75	4.82	935
OCTOBER -2009	2.09	7.56	ND	7.41	5.79	4.70	882
NOVEMBER -2009	2.94	7.65	ND	7.95	5.72	4.80	909
DECEMBER -2009	5.79	7.57	ND	12.4	7.04	6.01	933
Average	2.63	7.52	ND	7.51	5.69	4.75	973

	Oil & Grease (mg/L)	Outfall Temperature ( C )	Residual Chlorine (mg/L)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
Limit:					
JANUARY -2009	4.4	21.4	0.08	1.75	5.69
FEBRUARY -2009	2.1	20.6	0.06	1.63	5.78
MARCH -2009	2.1	22.2	0.06	2.13	5.00
APRIL -2009	1.8	23.0	0.04	2.61	4.92
MAY -2009	1.9	23.5	0.05	2.21	5.02
JUNE -2009	2.5	24.8	0.04	2.79	3.72
JULY -2009	<1.2	26.1	0.05	2.43	4.26
AUGUST -2009	1.5	26.7	0.05	1.96	4.30
SEPTEMBER-2009	2.0	26.4	0.05	2.03	4.51
OCTOBER -2009	1.7	23.8	0.05	2.42	4.38
NOVEMBER -2009	3.6	23.9	0.05	2.77	4.36
DECEMBER -2009	3.4	22.0	0.06	4.77	4.21
Average	2.3	24.8	0.05	2.46	4.25

ND=not detected  
NS=not sampled  
NA=not analyzed



SOUTH BAY WATER RECLAMATION PLANT  
From 01-JAN-2009 To 31-DEC-2009

Influent to Plant

	Flow (mgd)	pH	Total Dissolved Solids (mg/L)	Biochemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Turbidity* (NTU)
Limit:							
JANUARY -2009	8.61		1000	335	336	298	
FEBRUARY -2009	8.68	7.46	1040	326	299	260	185
MARCH -2009	8.60		1110	354	290	257	
APRIL -2009	8.28		1050	348	298	261	
MAY -2009	8.48	7.69	1040	367	303	266	197
JUNE -2009	8.29		1030	347	307	273	
JULY -2009	8.33		988	358	303	268	
AUGUST -2009	8.24		976	365	290	255	132
SEPTEMBER-2009	8.18	7.82	979	358	289	253	
OCTOBER -2009	8.21		899	345	282	244	166
NOVEMBER -2009	8.03	7.56	952	377	309	269	
DECEMBER -2009	8.09		982	347	296	255	
Average	8.34	7.63	1004	352	300	263	

\* = Monitored Quarterly

ND=not detected  
NS=not sampled  
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
ANNUAL SEWAGE  
Trace Metals

From: 01-JAN-2009 To: 31-DEC-2009

Analyte:	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic
MAX MDL Units:	47 UG/L	47 UG/L	2.9 UG/L	2.9 UG/L	.4 UG/L	.4 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:				110000		480*
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	1220	193	ND	ND	0.90	0.78
FEBRUARY -2009	1180	181	ND	ND	0.56	0.54
MARCH -2009	885	173	ND	ND	0.65	0.45
APRIL -2009	878	116	ND	ND	1.09	0.89
MAY -2009	773	129	ND	ND	0.96	0.71
JUNE -2009	946	148	ND	ND	0.51	<0.40
JULY -2009	1210	142	ND	ND	0.65	0.48
AUGUST -2009	1110	117	ND	ND	1.04	0.85
SEPTEMBER-2009	977	114	ND	ND	1.08	0.69
OCTOBER -2009	1320	108	ND	ND	0.63	0.63
NOVEMBER -2009	1070	111	3.30	ND	0.90	0.48
DECEMBER -2009	1090	115	ND	ND	0.80	0.61
=====	=====	=====	=====	=====	=====	=====
AVERAGE	1055	137	0.28	ND	0.81	0.59
Analyte:	Barium	Barium	Beryllium	Beryllium	Boron	Boron
MAX MDL Units:	.039 UG/L	.039 UG/L	.022 UG/L	.022 UG/L	7 UG/L	7 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:				3.1		
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	104.0	63.3	NR	ND	322	316
FEBRUARY -2009	105.0	66.7	ND	ND	313	345
MARCH -2009	97.0	61.6	NR	ND	308	302
APRIL -2009	128.0	88.9	ND	ND	309	214
MAY -2009	101.0	78.1	ND	ND	321	357
JUNE -2009	103.0	62.6	ND	ND	314	308
JULY -2009	109.0	72.3	ND	ND	318	319
AUGUST -2009	101.0	62.1	ND	ND	321	355
SEPTEMBER-2009	104.0	68.2	ND	ND	307	302
OCTOBER -2009	99.7	65.8	ND	ND	309	318
NOVEMBER -2009	81.7	51.3	ND	ND	327	315
DECEMBER -2009	103.0	61.3	ND	ND	306	165
=====	=====	=====	=====	=====	=====	=====
AVERAGE	103.0	66.9	ND	ND	315	301
Analyte:	Cadmium	Cadmium	Chromium	Chromium	Cobalt	Cobalt
MAX MDL Units:	.53 UG/L	.53 UG/L	1.2 UG/L	1.2 UG/L	0.85 UG/L	0.85 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:		96*		190*		
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	ND	ND	3.0	ND	NR	ND
FEBRUARY -2009	ND	ND	4.2	1.4	ND	ND
MARCH -2009	ND	ND	3.7	ND	NR	ND
APRIL -2009	ND	ND	3.5	1.3	NR	ND
MAY -2009	ND	ND	2.7	1.6	ND	ND
JUNE -2009	1.1	1.0	4.5	ND	NR	ND
JULY -2009	ND	ND	3.3	ND	NR	ND
AUGUST -2009	ND	ND	2.8	<1.2	ND	ND
SEPTEMBER-2009	ND	ND	3.4	1.7	NR	ND
OCTOBER -2009	ND	ND	3.8	ND	ND	ND
NOVEMBER -2009	ND	ND	3.4	ND	NR	ND
DECEMBER -2009	ND	ND	3.4	ND	NR	ND
=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.1	0.1	3.5	0.5	ND	ND

\* = 6 Month Median performance goal. All others are monthly average performance goals.

ND= not detected, NA= not analyzed, NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT  
ANNUAL SEWAGE  
Trace Metals

From: 01-JAN-2009 To: 31-DEC-2009

Analyte:	Copper	Copper	Iron	Iron	Lead	Lead
MAX MDL Units:	2 UG/L	2 UG/L	37 UG/L	37 UG/L	2 UG/L	2 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:		97				19*
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	64	22	681	58	ND	2.3
FEBRUARY -2009	81	14	639	44	4.3	ND
MARCH -2009	74	9	486	45	ND	ND
APRIL -2009	85	16	570	138	3.1	4.7
MAY -2009	68	11	431	62	ND	ND
JUNE -2009	74	12	554	40	4.6	ND
JULY -2009	80	17	668	ND	3.3	ND
AUGUST -2009	77	24	593	98	ND	ND
SEPTEMBER-2009	68	7	540	ND	2.5	ND
OCTOBER -2009	67	9	530	47	ND	ND
NOVEMBER -2009	81	6	838	38	2.4	ND
DECEMBER -2009	81	13	513	81	ND	ND
=====	=====	=====	=====	=====	=====	=====
AVERAGE	75	13	587	54	1.7	0.6

Analyte:	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum
MAX MDL Units:	.24 UG/L	.24 UG/L	.09 UG/L	.09 UG/L	.89 UG/L	.89 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:				38*		
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	58.5	20.7	0.24	ND	NR	4.5
FEBRUARY -2009	54.3	31.0	ND	ND	5.9	3.5
MARCH -2009	50.9	28.0	ND	ND	NR	3.0
APRIL -2009	56.7	48.2	0.22	ND	NR	3.5
MAY -2009	49.8	20.2	ND	ND	6.7	3.7
JUNE -2009	45.3	17.8	ND	ND	NR	4.9
JULY -2009	38.3	17.6	0.13	ND	NR	3.5
AUGUST -2009	32.9	16.7	0.17	ND	7.5	3.5
SEPTEMBER-2009	30.8	14.5	0.11	ND	NR	4.5
OCTOBER -2009	30.9	16.4	0.10	ND	7.4	3.4
NOVEMBER -2009	31.3	12.6	0.10	ND	NR	3.0
DECEMBER -2009	29.3	15.9	0.61	0.23	NR	4.0
=====	=====	=====	=====	=====	=====	=====
AVERAGE	42.4	21.6	0.14	0.02	6.9	3.8

\* = 6 Month Median performance goal. All others are monthly average performance goals.

ND= not detected  
NA= not analyzed  
NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT  
ANNUAL SEWAGE  
Trace Metals

From: 01-JAN-2009 To: 31-DEC-2009

Analyte:	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MAX MDL UNITS:	.53	.53	.28	.28	.4	.4
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:		480*		1400*		52*
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	6.66	9.00	2.04	0.84	1.2	ND
FEBRUARY -2009	6.40	3.58	1.77	0.57	0.4	ND
MARCH -2009	4.14	3.04	1.59	0.69	1.1	ND
APRIL -2009	4.82	4.28	2.33	1.53	0.7	ND
MAY -2009	4.34	3.74	2.13	0.74	0.9	ND
JUNE -2009	8.53	4.43	1.66	0.71	0.9	ND
JULY -2009	7.17	5.87	1.61	0.74	1.4	ND
AUGUST -2009	5.04	5.81	1.81	0.76	1.3	ND
SEPTEMBER-2009	5.89	5.14	1.97	0.63	1.3	0.5
OCTOBER -2009	4.83	3.66	1.54	0.60	0.9	ND
NOVEMBER -2009	7.66	2.78	1.42	0.39	2.2	0.4
DECEMBER -2009	3.81	2.96	2.01	0.85	2.3	ND
=====	=====	=====	=====	=====	=====	=====
AVERAGE	5.77	4.52	1.82	0.75	1.2	0.1

Analyte:	Thallium	Thallium	Vanadium	Vanadium	Zinc	Zinc
MAX MDL Units:	3.9 UG/L	3.9 UG/L	.64 UG/L	.64 UG/L	2.5 UG/L	2.5 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						1100*
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	ND	ND	NR	ND	158	39.8
FEBRUARY -2009	ND	ND	1.6	ND	185	45.3
MARCH -2009	ND	ND	NR	0.8	131	27.8
APRIL -2009	ND	ND	NR	0.8	152	46.6
MAY -2009	ND	ND	1.3	ND	143	38.8
JUNE -2009	ND	ND	NR	ND	135	32.5
JULY -2009	ND	ND	NR	ND	156	32.7
AUGUST -2009	ND	ND	1.2	<0.64	175	37.5
SEPTEMBER-2009	ND	ND	NR	1.1	150	31.1
OCTOBER -2009	ND	ND	1.9	0.9	153	32.1
NOVEMBER -2009	ND	ND	NR	1.0	157	31.8
DECEMBER -2009	ND	ND	NR	1.1	155	30.9
=====	=====	=====	=====	=====	=====	=====
AVERAGE	ND	ND	1.5	0.5	154	35.6

\* = 6 Month Median performance goal. All others are monthly average performance goals.

ND= not detected  
NA= not analyzed  
NS= not sampled

## SOUTH BAY WATER RECLAMATION PLANT 2009 Annual Report

## Cations

From 01-JAN-2009 To 31-DEC-2009

MDL:	Calcium		Magnesium		Lithium	
	.04	mg/L	.1	mg/L	.002	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	75.2	75.8	30.6	29.8	0.036	0.035
FEBRUARY -2009	71.8	73.4	31.7	31.9	0.028	0.028
MARCH -2009	74.7	77.9	33.4	32.8	0.031	0.033
APRIL -2009	86.4	85.1	31.7	30.9	0.052	0.049
MAY -2009	80.7	79.6	32.9	31.1	0.042	0.041
JUNE -2009	72.6	80.8	28.8	29.9	0.038	0.038
JULY -2009	71.8	75.4	26.3	26.2	0.042	0.042
AUGUST -2009	67.4	68.4	27.2	26.2	0.039	0.038
SEPTEMBER-2009	64.7	71.7	24.9	26.2	0.039	0.039
OCTOBER -2009	68.0	70.1	27.3	27.3	0.041	0.041
NOVEMBER -2009	65.2	66.8	31.1	30.2	0.029	0.028
DECEMBER -2009	74.1	74.3	29.1	28.0	0.050	0.049
=====	=====	=====	=====	=====	=====	=====
Average:	72.7	74.9	29.6	29.2	0.039	0.038

MDL:	Sodium		Potassium	
	1	mg/L	.3	mg/L
	Inf.	Eff.	Inf.	Eff.
=====	=====	=====	=====	=====
JANUARY -2009	189	185	19.1	17.5
FEBRUARY -2009	174	182	17.9	17.1
MARCH -2009	193	191	20.6	18.5
APRIL -2009	181	179	21.1	18.2
MAY -2009	190	189	20.7	18.7
JUNE -2009	179	189	22.1	20.8
JULY -2009	172	181	21.6	18.6
AUGUST -2009	172	178	21.9	18.6
SEPTEMBER-2009	152	176	18.9	19.5
OCTOBER -2009	182	198	22.3	19.6
NOVEMBER -2009	185	194	21.5	20.8
DECEMBER -2009	180	191	22.1	20.6
=====	=====	=====	=====	=====
Average:	179	186	20.8	19.0

ND=not detected

NS=not sampled

NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
ANNUAL SEWAGE

Anions

From: 01-JAN-2009 To: 31-DEC-2009

Analyte:	Bromide		Chloride		Fluoride	
MDL:	.1	.1	7	7	.05	.05
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Month	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
=====						
JANUARY -2009	NR	0.415	NR	223	NR	0.520
FEBRUARY -2009	0.360	0.430	239	246	0.540	0.620
MARCH -2009	NR	0.460	NR	264	NR	0.550
APRIL -2009	0.290	0.405	214	235	0.495	0.790
MAY -2009	0.349	0.450	220	235	0.493	0.720
JUNE -2009	0.258	0.355	203	217	0.619	0.520
JULY -2009	0.300	0.365	213	209	0.443	0.475
AUGUST -2009	0.205	ND	202	105	0.401	0.210
SEPTEMBER -2009	0.247	0.240	204	198	0.408	0.450
OCTOBER -2009	0.234	0.218	201	222	0.485	0.488
NOVEMBER -2009	0.314	0.336	224	240	0.640	0.550
DECEMBER -2009	0.258	0.307	213	217	0.527	0.609
=====						
AVERAGE	0.282	0.332	213	218	0.505	0.542

Analyte:	Nitrate		Ortho Phosph		Sulfate	
MDL:	.04	.04	.2	.2	9	9
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Month	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
=====						
JANUARY -2009	NR	24.4	NR	5.15	NR	202
FEBRUARY -2009	0.2	29.2	12.1	9.48	150	200
MARCH -2009	NR	25.1	NR	2.56	NR	202
APRIL -2009	3.3	32.6	11.4	5.64	199	267
MAY -2009	1.4	38.0	12.6	2.95	196	254
JUNE -2009	2.0	22.6	12.5	1.63	189	209
JULY -2009	3.7	29.4	12.2	1.80	181	221
AUGUST -2009	0.1	30.7	12.1	0.82	173	103
SEPTEMBER -2009	0.7	29.4	11.9	1.33	169	201
OCTOBER -2009	1.7	38.3	13.1	1.26	142	219
NOVEMBER -2009	2.7	30.6	12.9	3.36	180	190
DECEMBER -2009	2.6	24.9	12.3	3.63	199	227
=====						
AVERAGE	1.8	29.6	12.3	3.30	178	208

ND= not detected  
NA= not analyzed  
NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT  
ANNUAL SEWAGE

Ammonia-Nitrogen and Total Cyanides

From 01-JAN-2009 To 31-DEC-2009

	Ammonia-N .3 Influent	Ammonia-N .3 Effluent	Cyanides,Total .002 MG/L Influent	Cyanides,Total .002 MG/L Effluent
Limit:		570		0.096
=====	=====	=====	=====	=====
JANUARY -2009	33.4	0.7	ND	ND
FEBRUARY -2009	34.5	ND	ND	0.003
MARCH -2009	29.0	ND	ND	ND
APRIL -2009	31.0	0.8	ND	ND
MAY -2009	28.2	ND	ND	ND
JUNE -2009	36.4	ND	ND	0.002
JULY -2009	33.0	ND	ND	ND
AUGUST -2009	34.4	ND	ND	ND
SEPTEMBER-2009	31.9	ND	ND	ND
OCTOBER -2009	35.2	ND	ND	ND
NOVEMBER -2009	28.2	ND	ND	ND
DECEMBER -2009	35.7	ND	ND	0.002
=====	=====	=====	=====	=====
Average:	32.6	0.1	ND	0.001

ND= not detected

NA= not analyzed

NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT  
Radioactivity  
Effluent to the Ocean

Analyzed by: TestAmerica Laboratories Richland

From 01-JAN-2009 To 31-DEC-2009

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====
Effluent	JANUARY -2009	0.0 ± 0.6	22.8 ± 4.0
Effluent	FEBRUARY -2009	2.2 ± 2.0	19.5 ± 4.0
Effluent	MARCH -2009	3.7 ± 2.3	17.5 ± 4.0
Effluent	APRIL -2009	2.6 ± 1.7	20.0 ± 4.0
Effluent	MAY -2009	1.3 ± 2.0	19.2 ± 4.4
Effluent	JUNE -2009	1.5 ± 1.9	22.4 ± 4.2
Effluent	JULY -2009	2.4 ± 1.7	19.2 ± 4.1
Effluent	AUGUST -2009	1.4 ± 1.6	18.4 ± 3.7
Effluent	SEPTEMBER-2009	2.2 ± 2.0	21.4 ± 4.1
Effluent	OCTOBER -2009	1.2 ± 1.8	21.6 ± 4.3
Effluent	NOVEMBER -2009	1.0 ± 1.2	22.5 ± 4.4
Effluent	DECEMBER -2009	-0.6 ± 1.5	24.7 ± 6.2
=====	=====	=====	=====
AVERAGE		1.6 ± 1.7	20.8 ± 4.3

ND= not detected

NA= not analyzed

NS= not sampled

Units in picocuries/liter (pCi/L)



SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	EFF JAN	EFF FEB	EFF MAR	EFF APR	EFF MAY	EFF JUN	EFF JUL	EFF AUG	EFF SEP	EFF OCT	EFF NOV	EFF DEC	EFF Avg
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	ND	ND	1
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	8	0	0	0	0	0	0	0	0	1
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	8	0	0	0	0	0	0	0	0	1

ND= not detected  
NA= not analyzed  
NS= not sampled

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	INF FEB	INF MAY	INF AUG	INF OCT	INF Avg
=====	=====	=====	=====	=====	=====	=====	=====
Aldrin	7	NG/L	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	5	ND	1
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0
DDT and derivatives	8	NG/L	0	0	5	0	1
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0	0
=====	=====	=====	=====	=====	=====	=====	=====
Heptachlors	8	NG/L	0	0	0	0	0
=====	=====	=====	=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	4000	NG/L	0	0	5	0	1

ND= not detected  
NA= not analyzed  
NS= not sampled

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

SOUTH BAY WATER RECLAMATION PLANT  
Organophosphorus PesticidesEPA Method 614/622 (with additions)

INFLUENT & EFFLUENT

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	Effluent	Effluent	Influent	Influent
			05-MAY-2009	06-OCT-2009	05-MAY-2009	06-OCT-2009
			P468787	P490588	P468782	P490583
=====			=====	=====	=====	=====
Demeton O	.15	UG/L	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND
Malathion	.03	UG/L	ND	ND	ND	ND
Parathion	.03	UG/L	ND	ND	ND	ND
=====			=====	=====	=====	=====
Dichlorvos	.05	UG/L	ND	ND	ND	0.1
Dibrom	.2	UG/L	ND	ND	ND	ND
Ethoprop	.04	UG/L	ND	ND	ND	ND
Phorate	.04	UG/L	ND	ND	ND	ND
Sulfotepp	.04	UG/L	ND	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	ND	ND
Ronnel	.03	UG/L	ND	ND	ND	ND
Trichloronate	.04	UG/L	ND	ND	ND	ND
Merphos	.09	UG/L	ND	ND	ND	ND
Dichlofenthion	.03	UG/L	ND	ND	ND	ND
Tokuthion	.06	UG/L	ND	ND	ND	ND
Stiropfos	.03	UG/L	ND	ND	ND	ND
Bolstar	.07	UG/L	ND	ND	ND	ND
Fensulfothion	.07	UG/L	ND	ND	ND	ND
EPN	.09	UG/L	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND
Mevinphos, e isomer	.05	UG/L	ND	ND	ND	ND
Mevinphos, z isomer	.3	UG/L	ND	ND	ND	ND
Chlorpyrifos	.03	UG/L	ND	ND	ND	ND
=====			=====	=====	=====	=====
Thiophosphorus Pesticides	.15	UG/L	0.0	0.0	0.0	0.0
Demeton -O, -S	.15	UG/L	0.0	0.0	0.0	0.0
=====			=====	=====	=====	=====
Total Organophosphorus Pesticides	.3	UG/L	0.0	0.0	0.0	0.1

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT  
ANNUAL SEWAGE - Tributyl Tin Analysis

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	EFF FEB	EFF MAY	EFF AUG	EFF OCT	Average
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

Analyte	MDL	Units	INF FEB	INF MAY	INF AUG	INF OCT	Average
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL - Acid Extractables

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Phenols	2.16	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Additional analytes determined;

2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	INF	INF	INF	INF	Average
			FEB	MAY	AUG	OCT	
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	35.0	32.6	40.5	38.0	36.5
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	35.0	32.6	40.5	38.0	36.5
Total Phenols	2.16	UG/L	35.0	32.6	40.5	38.0	36.5

Additional analytes determined;

2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	124	108	109	110	112
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

ND=not detected  
NS=not sampled  
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	EFF FEB Avg	EFF MAY Avg	EFF AUG Avg	EFF OCT Avg	EFF Average
=====	=====	=====	=====	=====	=====	=====	=====
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Base/Neutral Compounds	8.96	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	INF	INF	INF	INF	INF
			FEB	MAY	AUG	OCT	Average
			Avg	Avg	Avg	Avg	
=====	=====	=====	=====	=====	=====	=====	=====
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	12.0	12.1	13.3	9.8	11.8
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	18.1	17.6	15.2	9.0	15.0
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Base/Neutral Compounds	8.96	UG/L	30.1	29.7	28.5	18.8	26.8
=====	=====	=====	=====	=====	=====	=====	=====
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	EFF	EFF	EFF	EFF	EFF
			FEB	MAY	AUG	OCT	Average
=====	=====	=====	=====	=====	=====	=====	=====
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	0.67*	0.5	0.4	0.8*	0.5
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	1.4	0.8	0.6	0.9	0.9
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	0.6	ND	ND	ND	0.2
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND
Toluene	.4	UG/L	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	ND	0.5	1.4	ND	0.5
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Chloromethanes	.5	UG/L	1.4	1.3	1.0	0.9	1.2
=====	=====	=====	=====	=====	=====	=====	=====
Purgeable Compounds	1.3	UG/L	2.0	1.8	2.4	0.9	1.8
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	ND	ND	ND	ND	ND
Acetone	4.5	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND

ND=not detected; NS=not sampled; NA=not analyzed

\* = Batch did not meet QC criteria, blank contamination, the blank value for this batch was above MDL. Data is not included in averages.



SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	INF	INF	INF	INF	INF
			FEB	MAY	AUG	OCT	Average
=====	=====	=====	=====	=====	=====	=====	=====
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	ND*	1.3	1.7	1.4*	1.5
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	3.7	3.0	2.3	1.7	2.7
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	0.8	0.7	ND	ND	0.4
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND
Toluene	.4	UG/L	0.6	12.1	0.7	0.6	3.5
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	0.9	0.8	ND	ND	0.4
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	1.1	1.5	1.2	0.8	1.2
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Chloromethanes	.5	UG/L	3.7	4.3	4.0	1.7	3.4
=====	=====	=====	=====	=====	=====	=====	=====
Purgeable Compounds	1.3	UG/L	7.1	19.4	5.9	3.1	8.9
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	2.0	1.3	5.6	2.1	2.8
Acetone	4.5	UG/L	279	200	292	176	237
=====	=====	=====	=====	=====	=====	=====	=====
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND

ND=not detected; NS=not sampled; NA=not analyzed

\* = Batch did not meet QC criteria, blank contamination, the blank value for this batch was above MDL. Data is not included in averages.

SOUTH BAY WATER RECLAMATION PLANT  
Annual Sewage Dioxin and Furan Analysis  
From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				JAN	FEB	MAR	APR
				P454813	P458506	P463351	P467234
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				MAY	JUN	JUL	AUG
				P468782	P473440	P477633	P481319
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				SEP	OCT	NOV	DEC
				P485365	P490583	P494473	P498358
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers. ND= not detected

SOUTH BAY WATER RECLAMATION PLANT  
Annual Sewage Dioxin and Furan Analysis  
From 01-JAN-2009 To 31-DEC-2009

Effluent Limit (TCDD): 0.37 pg/L (30-day Average)

Analyte	MDL	Units	Equiv	EFF JAN	EFF FEB	EFF MAR	EFF APR
				P454817	P458511	P463355	P467238
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	EFF MAY	EFF JUN	EFF JUL	EFF AUG
				P468787	P473444	P477637	P481324
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	EFF SEP	EFF OCT	EFF NOV	EFF DEC
				P485369	P490588	P494477	P498362
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers. ND= not detected

SOUTH BAY WATER RECLAMATION PLANT  
Annual Sewage Dioxin and Furan Analysis  
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Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
				JAN	FEB	MAR	APR
				P454813	P458506	P463351	P467234
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
				MAY	JUN	JUL	AUG
				P468782	P473440	P477633	P481319
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
				SEP	OCT	NOV	DEC
				P485365	P490583	P494473	P498358
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers. ND= not detected

SOUTH BAY WATER RECLAMATION PLANT  
Annual Sewage Dioxin and Furan Analysis  
From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	Equiv	EFF	EFF	EFF	EFF
				TCCD	TCCD	TCCD	TCCD
				JAN	FEB	MAR	APR
				P454817	P458511	P463355	P467238
=====							
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	EFF	EFF	EFF	EFF
				TCCD	TCCD	TCCD	TCCD
				MAY	JUN	JUL	AUG
				P468787	P477637	P481324	
=====							
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	EFF	EFF	EFF	EFF
				TCCD	TCCD	TCCD	TCCD
				SEP	OCT	NOV	DEC
				P485369	P490588	P494477	P498362
=====							
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers. ND= not detected